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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/603,528	06/25/2003	David P. Quigley	8222-42	4126
7:	590 07/14/2005	•	EXAM	INER
Woodard, Emhardt, Moriarty, McNett & Henry LLP			KWON, JOHN	
Bank One Cent	er/Tower	·		
Suite 3700			ART UNIT	PAPER NUMBER
111 Monument Circle			3747	
Indianapolis, Γ	N 46204-5137		DATE MAILED: 07/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/603,528	QUIGLEY ET AL.	
Office Action Summary	Examiner	Art Unit	
TI MAILING SATE	John T. Kwon	3747	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a ri - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of the dwill apply and will expire SIX (6) Motute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 05	Mav 2005.		
· · · · · · · · · · · · · · · · · · ·	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	vance except for formal ma	-	
Disposition of Claims			
4) ☐ Claim(s) <u>1-4,6,8,13-20 and 27-32</u> is/are penda 4a) Of the above claim(s) is/are withden 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-4,6,8,13-20 and 27-32</u> is/are rejee 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b)☐ objected t	o by the Examiner.	
Applicant may not request that any objection to the	- · ·	• •	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the		• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in rionty documents have bee eau (PCT Rule 17.2(a)).	Application No In received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date i Informal Patent Application (PTO-152) 	

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 1-4, 6, 8 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Newly insert limitation of "the sidewall portion extending **parallel** to the centerline . . ." is a new matter since the original specification disclosed as a **substantially parallel** (page 8, lines 4-5).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6, 8, 13-20, 27-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Griser (US 6 539 910). Griser discloses a piston with an annular surface (14). A combustion bowl is defined by a circumferential sidewall and a bottom wall portion. The sidewall has a sharp edge at the intersection with the annular surface (14) and **substantially** parallel to the centerline. An upward flared portion is located between the sharp portion and the rounded portion (18).

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4, 8, 13-18, 27-32 are rejected under 35 U.S.C. 102(a) as being anticipated by Iijima (US 6 314 933). Iijima discloses a piston with an annular surface (15). A combustion bowl (11) is defined by a circumferential sidewall and a bottom wall portion. The sidewall has a sharp edge at the intersection with the annular surface (15) and **substantially** parallel to the centerline.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John T. Kwon whose telephone number is (571) 272-4846. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 3747